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SILENT OPERATING MODE FOR REDUCING EMISSIONS OF A  
HYBRID ELECTRIC VEHICLE

ABSTRACT OF THE DISCLOSURE

- This novel silent operating mode for a hybrid electric vehicle (HEV) reduces noise and emissions compared to traditional HEV operating modes. It is a complementary series of software control functions that allows
- 5 the vehicle to operate with reduced noise and emissions where specifically needed, while phasing-in engine power where allowed. The method utilizes an energy storage system budget associated with a modal quantity of energy allocated for the mode, and is adapted to automatically adjust the operation of the vehicle to accommodate deviations from the budgeted energy amount.
- 10 The mode also adjusts the vehicle operation in conjunction with changes in the parametric conditions of the ESS.